

FIG. 1

CCCTGACCTCGAGATCCATTGTGCTCTAAAGCAGAGTCTGGGTCTACCTACATATGGCACCCGAGGATA
 CCTAGAGGCCCCCATGCAAGAGAAAGGCCCTTGTGTTTCCAGGCACTGAGGACCCGAGTCCTTAATTCTCTGGC
 AGTTCCTGAGATCTCAAGGAAAGCAGGTCAGCGAGGAGGCCCTGGGAGAGGAGGCATCCTACACCCAAT
 CTTGTGGCCTGCTGCCCTAAGGAAACAGGAGACCAATGACAGCTATGC
 TAACACTAGAAACCATGGCCAGTGAAGAAGAATAATGGGCCGAGGAACTGTGTGGTGTGGAGACCGGGC
 CACAGGCTATCATTTCCACGCCCTGACTTGTGAGGGCTGCAAGGGCTTCTTCAGACGAACAGTCAGCAAA
 ACCATTGGTCCCATCTGTCCGTTTGTGTGGAAGGTGAGGTCAAGCAAGGCCACAGAGACGCCACTGTCCAG
 CCTGAGGTTGCAGAAAGTGTCTAAATGTTGGCATGAGGAAAGACATGATACGTTCAGCAGAAAGCCCTGGC
 ATTGGGGCGAGCCAGACAGGCACAGCGCGGGCAGAGAAAGCATCTTTTGCAACTGAATCAGCAGCAGAAA
 GAACGTGTTCCAGATCCTCTGGGGGCCACACTCGCCATGTGGGCCCATTTGTTTGACCAAGTTTGTGCAGT
 TCAAGCCTCCAGCCTATCTGTTCATGTCATCACCGGCCTTTCCAGCCTCGGGCCCCGTGTGGCTCTGCT
 CACACACTTTGCAGATATCAACACGTTTATGTTGCAACAGATCATCAAGTTCAACCAAGGATCTGCCGCTC
 TTCCGGTCCCTAACCATGGAGGACCAGATCCTCCTTCTCAAGGAGCGGCTGTGGAATAATTGCATATCT
 CACTAACACTACGTTCTTCAAAACAGAGAAATTTCTTCTGTGGGCCCTCTTTGCTACAAGATGGAGGA
 CGCAGTCCATGCAGGGTTCCAGTACGAGTTTGTGAGTCGATCCTCCACTCCATAAAACCTGAAAGGA
 CTGCATCTCCAGGAGCCTGAGTATGTGCTCATGGCTGCCACGGCCCTCTTCTCCCCCTGGTTTCTGTATGC
 AAAGCTGATGGGCCCTGCTGGCTGACCTCCGGAGTATAAACAAATGCATACCTCTATGAACCTTCAGCGCTTG
 GAGGAACCTGTCTGCTATGACGCCCTGCTCGGGGAGATTTGCAGTTGAGGCCCAGGCTTGCACTCTTCC
 CCAGACCCCAAGGATACACTGGCCTGGAAAGGGTACAGCGCTGGACCCCAACACAGCAGAAAGGAGCTTGG
 GAGTGGCAATGAAATGCTGAACAGT (SEQ ID NO:1)

MTAMLTLTMASEEEYGPRNCVVCGDRATGYHFHALTCEGCKGF
 FRRTVSKTIGPICPFAGRCEVSKAQRRHCPACRLQKCLNVGMRKDM
 ILSAEALALRRARQAQRRAEKASLQNNQQKELVQILLGAHTRHVG
 PLFDQFVQFKPPAYLFMHHRPFQPRGPVLPLLTHFADINTFMVQQHK
 FTKDLPLFRSLTMEDQISLLKGAAVEILHISLNTTFCLQTENFFCGPLC
 YKMEDA VHAGFQYEFLESILHFHKNLKGHLHQEPEYVLMMAATA
 LFSPGFCMQS (SEQ ID NO:2)

FIG. 1

Construct

GI Number(s): 2267577

Gene Family: Nuclear Hormone Receptor

Gene
Subfamily: Orphan NHR

Gene Sequence: full-length cDNA, Mouse

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

CCCTCGACCTCGAGATCCATTGTGCTCTAAAGCAGAGTCTGGGTCTACCTACATATGGC
ACCGAGGATACCTAGAGGCCCATGCAAGAGAAGGCCCTTGTTTTCCAGGCACTGAGGAC
CGCAGTCCCTAATTCCTGGCAGTTCCTGAGATCTCAAGGAAAGCAGGGTCAGCGAGGAGG
CCTGGGGAGAGGAGGCATCTACACCCAATCTTGTGGCCTGCTGCCTAAGGGAAACAG[
GACCATGACAGCTATGCTAACACTAGAAACCATGGCCAGTGAAGAAGAATATGGGCCGAG
GAACCTGTGTGGTGTGTGGAGACCGGGCCACAGGCTATCATTTCCACGCCCTGACTTGTGA
GGGCTGCAAGGGCTTCTTCAGACGAACAGTCAGCAAAACCATTGTCCTCATCTGTCCGTT
TGCTGGAAGGTGTGAGGTGAGCAAGGCCAGAGACGCCACTGTCCAGCCTGCAGGTTGCA
GAAGTGTCTAAATGTTGGCATGAGGAAAGACATGATACTGTCAGCAGAAGCCCTGGCATT
GCGGCGAGCCAGACAGGCACAGCGGGCAGAGAAAGCATCTTTGCAACTGAATCAGCA
GCAGAAAGAACTGGTCCAGATCCTCCTGGGGGCCACACTCGCCATGTGGGCCCATTTGTT
TGACCAGTTTGTGCAGTTCAAGCCTCCAGCCTATCTGTTTCATGCATCACCGGCCCTTTCCA
GCCTCGGGGCCCCGTGTTGCCTCTGCTCACACACTTTGCAGATATCAACACGTTTATGGT
GCAACAGATCATCAAGTTCACCAAGGATCTGCCGCTCTTCCGGTCCCTAACCATGGAGGA
CCAGATCTCCCTTCTCAAGGGAGCGGCTGTGGAATATTGCATATCTCACTCAACACTAC
GTTCTGTCTTCAAACAGAGAATTTCTTCTGTGGCCCTCTTTGCTACAAGATGGAGGACGC
AGTCCATGCAGGGTTCCAGTACGAGTTTTTGGAGTCGATCCTCCACTTCCATAAAAAACCT
GAAAGGACTGCATCTCCAGGAGCCTGAGTATGTGCTCATGGCTGCCACGGCCCTCTTCTC
CCCTGGTTTCTGTATGCAAAGCTGATGGGCCTGCTGGCTGACCTCCGGAGTATAAACAAT
GCATACTCCTATGAACCTTCAGCGCTTGGAGGAACGTCTGCTATGACGCCGCTGCTCGGG
GAGATTTGCAGTTGAGGCCAGGCTTGCATCCTTTCCCCAGACCCCCAGGGATACACTGG
CCTGGAAAGGGTACAGCGCTGGACCCACACAGCAGAAGGAGCTTGGGAGTGGCAATGAA
ATGCTGAACAGT

Gene Sequence
Structure *

282 bp

Sequence Deleted

403 bp

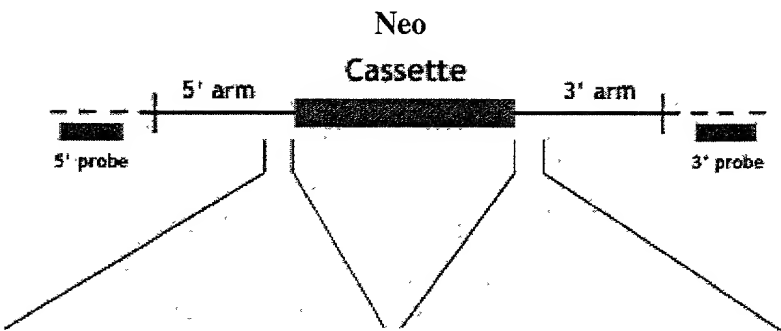
Size of full-length
cDNA: 1332 bp

FIG. 2A

Targeting Vector* (genomic sequence)

Construct Number: 138

Arm Length:
5': 3.5 kb
3': 1.9 kb



———— Targeting Vector
- - - - Endogenous Locus

* Not drawn to scale

<p>5'>TTGGAGGCCAGAGACAAAAAG CAACATTTTGTCTTTAATGTCCT CAGTGCTGGGGAGCCCCGGTGTCTCAG GCTGGGCAGTCTTGGGAAGAGATT CTGTAGAGGAGAGAGAAGAGAGTC CTATGGCCCAGTGCTGATTCTCAA CTCCTCCCACATTCAGGAGACCAT GACAGCTATGCTAACA:TAGAAAC CATGGCCAGTG<3' (SEQ ID NO. 3)</p>	<p>5'>GGTCCCATCTGTCCGTTTGCT GGAAGGTGTGAGGTCAGCAAGGCC CAGAGACGCCACTGTCCAGCCTGC AGGTTGCAGAAGTGTCTAAATGTT GGCATGAGGAAAGACAGTGAGTTG GTCCCTACCGTTCCAGGAGTCCAT TGGTGCTTCTCTGCTTTTGTTTCAG GTTCCACAGCAGGCAGAGTGAGC TGTTGGAAACC<3' (SEQ ID NO. 4)</p>
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FIG. 2B

necropsy - spleen weight/body weight

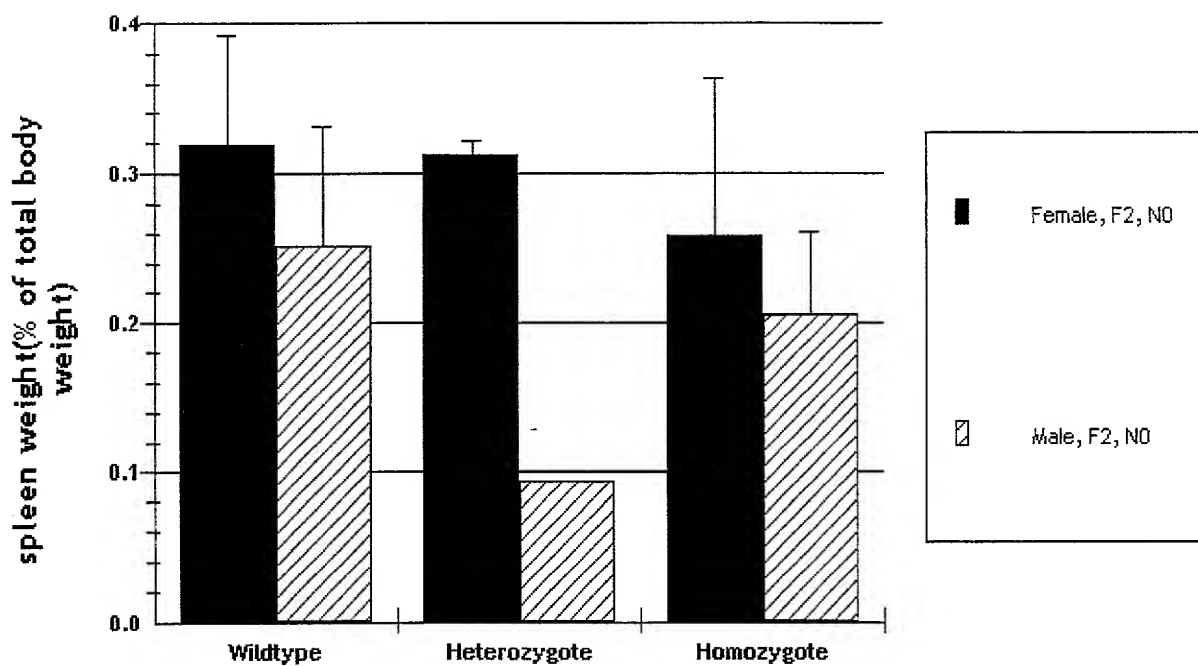


FIG. 3

necropsy - thymus weight/body weight

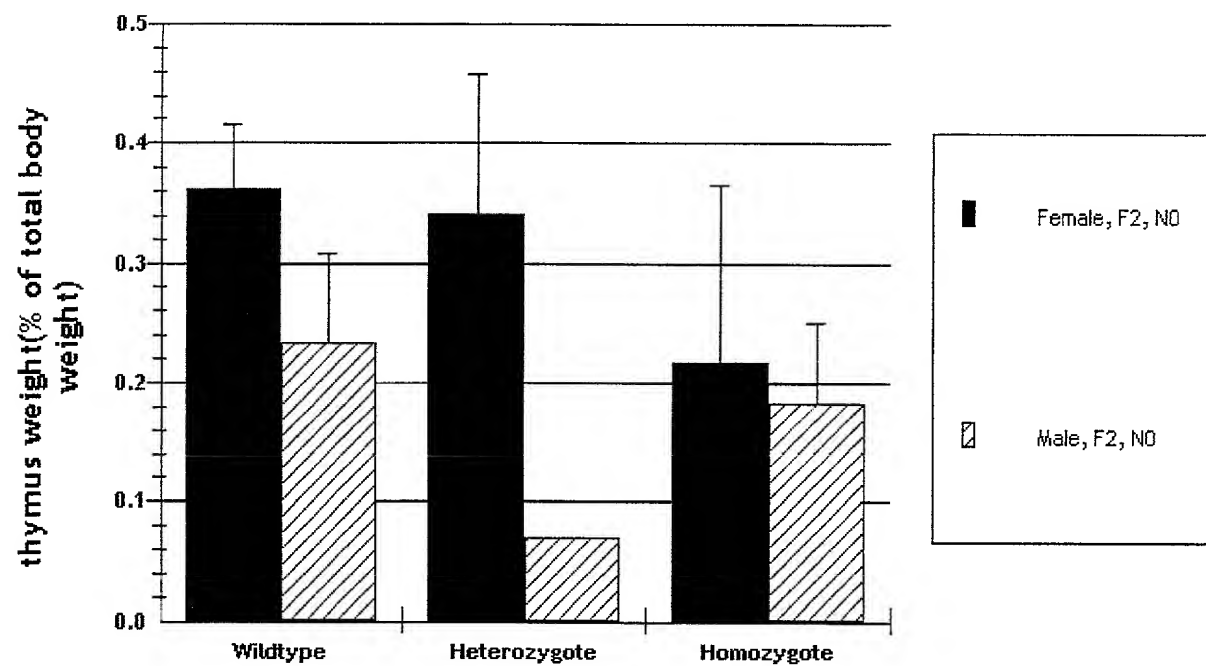


FIG. 4